	material, e.g. Ni etc It is not necessary to supply the steam continuously, but the supply is carried-out intermittently. Heat loss is decreased, and corrosion of the electrolysis vessel is reduced. (4pp34).	Electrolysis is carried out at temp. 322 - 400°C while supplying steam to cathode chamber. Electric voltage in electrolysing vessel is made minimum and the process becomes very economical. By restricting the electrolysing temp, within the above range, the amt. of the steam dissolved in the fused NaOH is increased, thereby it becomes possible to use as the electrode an economical	47774B/26 E36 J03 HITF 25.10.77 HITACHI SHIPBLD ENGGKK 25.10.77-JA-12835 (17.05.79) C25b-01/04 Electrolytic decomposition of steam to hydrogen and oxygen - the steam being dissolved in electrolyte of fused sodium hydroxide	
	_		E(31=A, 31-D) J(3-B).	
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	lloss in electric voltage is made very low.(5pp34).
	electrodes as close as possible to the diaphragm, thereby
	electrolysis is carried-out economically without danger of
	The mixing of O ₂ and H ₂ generated in both of the chambers through the diaphragm is completely prevented
	excellent anti-corrosive property against the fused NaOH.
	mobility of 1, and of formula: Na ₂ O 0.5-11 Al ₂ O ₃ , as the diaphragm, and fused NaOH as the electrolysing liquor
	Water is effectively and economically decomposed by electrolysis into H_2 and O_2 by carrying-out the electroly-sis at 330 - 500°C while supplying steam to anode cham-
	Electrolysis of water - at 330-500 degrees C using sintered beta- alumina as diaphragm
1:40	HITACHI SHIPBLD ENGG KK *J5 4061-089 25.10.77-JA-128336 (17.05.79) C25b-01/04 *J6 4061-089
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	33534 K/14 E36 J03 ARAK/ 21.08.81 ARAKAWA T *J5 8034-183	E(31.A. 34 D1. 34.E. 35.E. 35.L) J(3.B2)	\
***************************************	21.08.81-JP-130054 (28.02.83) C25b-01/04 C25b-11/06 C25b- 13/04 Electrolysis cell for steam for hydrogen mfr uses metal oxide solid	hydrogen gas atmosphere.(5ppW121).	•
,	electrolyte and ruthenium, rhadium, palladium, silver, iridium, platinum and/or gold as electrodes		
_	('H3-0327-10 In an electrolysis cell used for electrolysis	The state of the s	
·	of steam and having the electrodes (2) arranged on both sides of a solid electrolyte (1), the improvement is that the		
	general formula AO_{m} - BO_{n} (wherein A is Zr; B is Hg, Ca,		
•	y or rare earth metal. In and it are sinegers, and the chectrodes is composed of metal selected from Ru. Rh. Pd. Ag, Ir, Pt and Au.	10 8	
	USE/ADVANTAGE Electrolysis of steam for prodn. of hydrogen can be effected at a lower temp. and at high current efficiency.		
A COLOR	The cell contains an outer alumina pipe (3), an inner stainless steel pipe (4) and lead wires (5,6). The electrode		
	applying a vacuum vapour deposited Ag layer on the solid	J58034183	w
	electrolyte surface and then hear treaming at 500 00		

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*ZHEN/ 94-084061/11 **★ CN 1072465-A** Hydrogen prepn. from microwave electrolysis of steam - uses appts. comprising microwave generator and electrolysis tank giving high electrolysis efficiency with no corrosion to the appts. NoAbstract ZHENG J 92.08.29 92CN-110190 E36 J03 (93.05.26) C25B 1/04 N94-065736

X25-B02B X25-R01

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